



Missouri Department of Natural Resources
West Fork Sni-a-bar Creek - WBID 0400
Water Chemistry Data, 2001-2003

Org	Site	Site Name	Yr	Mo	Dy	Time	H	Flow	C	DO	pH	SC	NH3N
MoDNR	400/3.2	W. Fk. Sni-a-Bar Cr. 4.4 mi.bl. Lake Lotawana WWTP	2003	7	15	720			26	1.8	7	117	0.23
MoDNR	400/3.2	W. Fk. Sni-a-Bar Cr. 4.4 mi.bl. Lake Lotawana WWTP	2003	7	15	1300		1.04	28	2.4	7.2	483	0.24
MoDNR	400/3.2	W. Fk. Sni-a-Bar Cr. 4.4 mi.bl. Lake Lotawana WWTP	2003	7	16	640			24	2	6.3	264	0.31
MoDNR	400/3.2	W. Fk. Sni-a-Bar Cr. 4.4 mi.bl. Lake Lotawana WWTP	2003	7	16	1325			27	2.9	5.9	192	0.25
MoDNR	400/4.4	W. Fk. Sni-a-Bar Cr. 3.2 mi.bl. Lake Lotawana WWTP	2003	7	15	700			25	3.2	7.5	484	0.07
MoDNR	400/4.4	W. Fk. Sni-a-Bar Cr. 3.2 mi.bl. Lake Lotawana WWTP	2003	7	15	1310		0.92	29	5.8	7.7	486	0.06
MoDNR	400/4.4	W. Fk. Sni-a-Bar Cr. 3.2 mi.bl. Lake Lotawana WWTP	2003	7	16	640			23	3.5	6.6	497	0.06
MoDNR	400/4.4	W. Fk. Sni-a-Bar Cr. 3.2 mi.bl. Lake Lotawana WWTP	2003	7	16	1310			29	5.35	5.9	485	0.05
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2001	8	8	700	9		25	1.8	6.4	476	2.16
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2001	8	8	1300	9	0.96	27	2.6	7.1	478	2.01
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2001	8	9	610	9		26	1.6	6.8	491	2.01
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2001	8	9	1350	9		28	2.6	7.2	495	1.95
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2003	7	15	645		0.75	25	1.4	7.4	555	2.35
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2003	7	15	1340			30	4	6.3	351	1.8
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2003	7	16	625			22	1.65	7.4	555	2.52
MoDNR	400/6.5	W. Fk. Sni-a-Bar Cr. 1.1 mi.bl. Lake Lotawana WWTP	2003	7	16	1255			26	2.4	5.6	183	2.21
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2001	8	8	640	9		26	4.2	6.7	415	0.02499
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2001	8	8	1320	9	0.43	28	5	7.2	415	0.02499
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2001	8	9	630	9		27	4	6.9	417	0.05
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2001	8	9	1300	9		29	4.4	7.4	416	0.05
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2003	7	15	1413		0.02	29	4.6	6.6	448	0.07
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2003	7	15	600			25	4	7.7	463	0.08
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2003	7	16	1230			28	5	6.45	453	0.09
MoDNR	400/7.8	W. Fk. Sni-a-Bar Cr. 0.1 mi.ab. Lake Lotawana WWTP	2003	7	16	550			23	3.3	7.4	350	0.1

The water quality standard for the protection of aquatic life for dissolved oxygen is 5mg/L. For dissolved oxygen, the Listing Methodology Document allows a water to be judged as impaired if measurements on 10 percent of the monitored days fail to meet the water quality standard. Twelve of 12 days exceeded the standard, or 100 percent. For a stream with a 10 percent exceedence frequency of a standard, 12 exceedences in 12 samples has a binomial probability Type One error rate of 0.000. This is less than the allowable error rate of 0.1. Thus, this water is judged to be **impaired** by low dissolved oxygen.

The U.S. Environmental Protection Agency approved a total maximum daily load for high biochemical oxygen demand, which contributes to low dissolved oxygen, and volatile suspended solids in 2006. the Environmental Protection Agency has approved the removal of West Fork Sni-a-Bar from the 303(d) List. However, because of low dissolved oxygen levels above the treatment plant and several miles below, it is believed that there is an additional cause contributing to low dissolved oxygen in West Fork Sni-a-Bar.

Missouri Department of Natural Resources, Water Protection Program, (573) 751-1300, www.dnr.mo.gov
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